

*FIG.1
(Prior Art)*

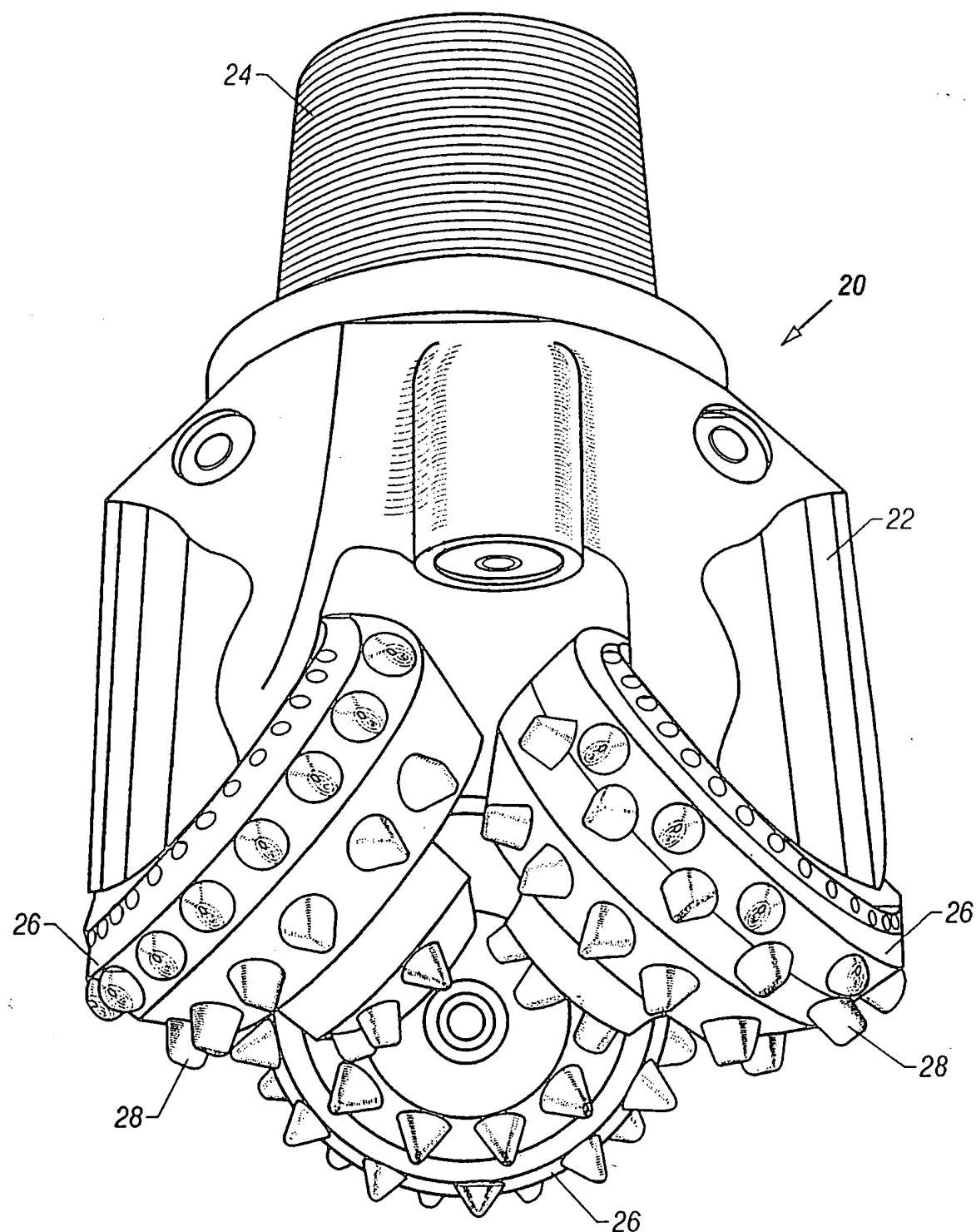
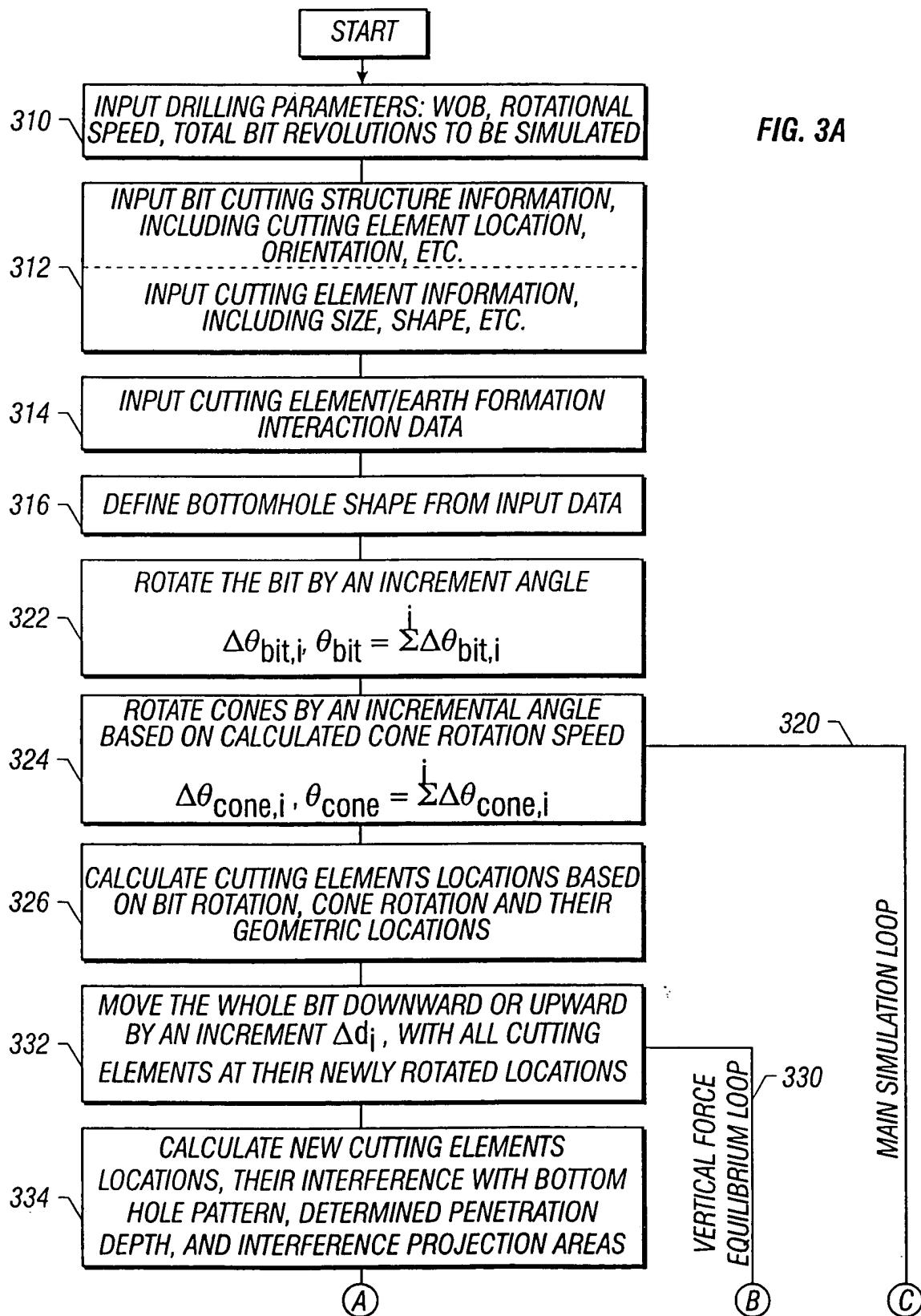


FIG. 2
(Prior Art)



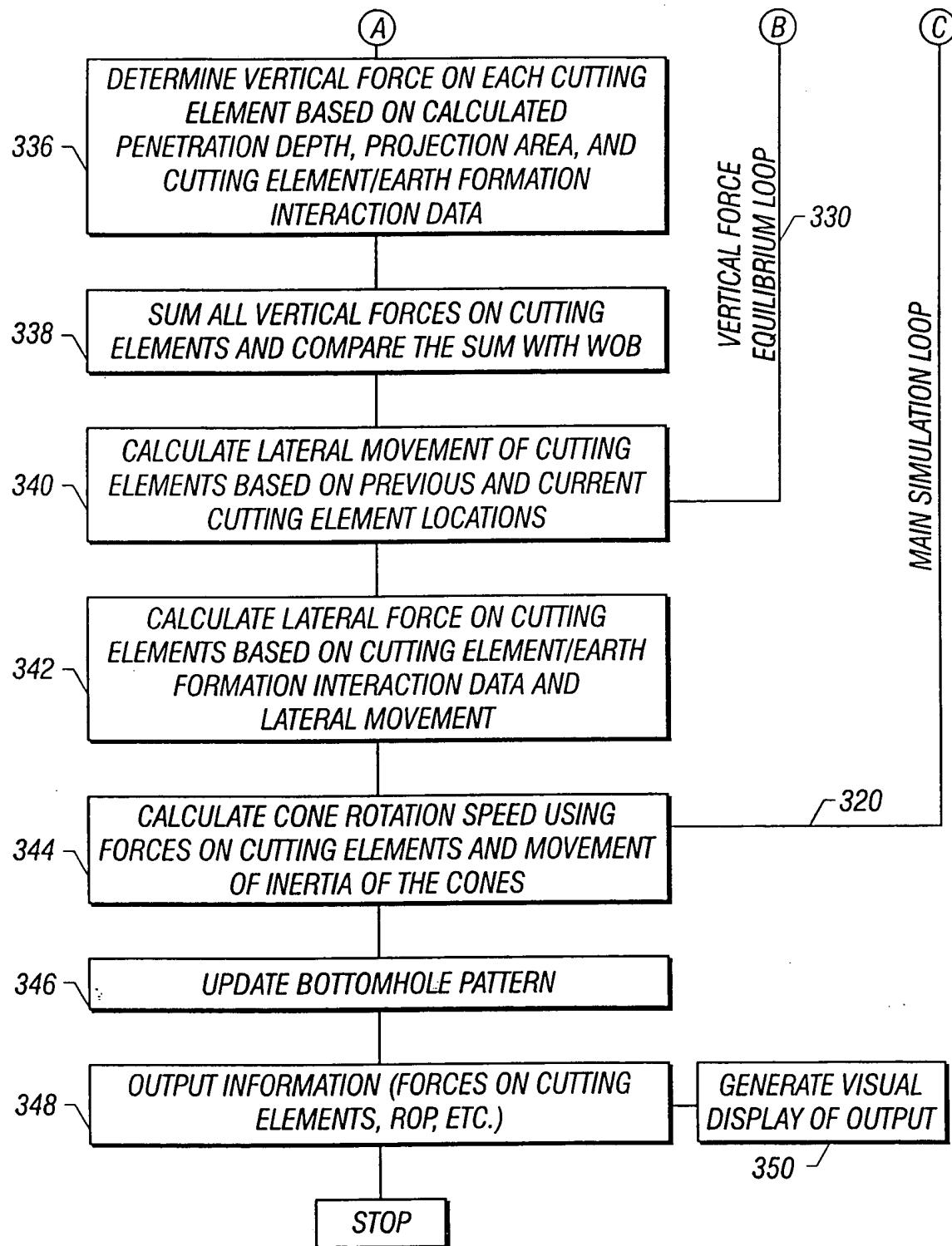


FIG. 3B

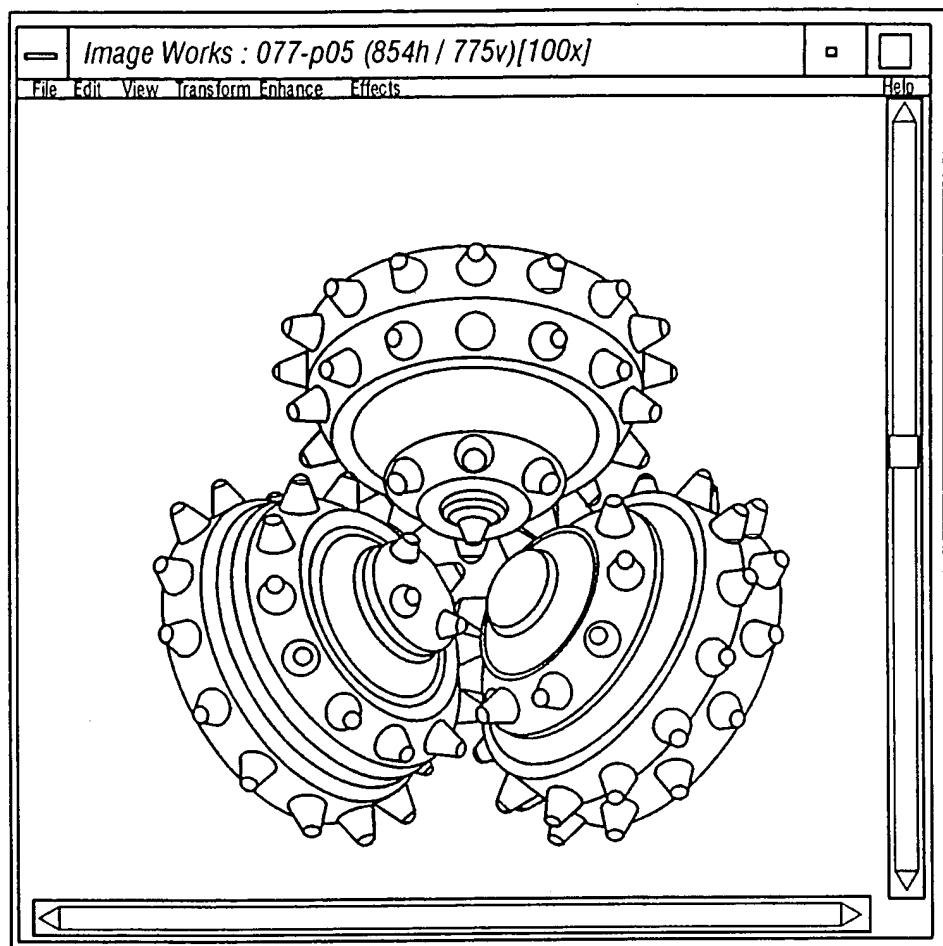


FIG. 4

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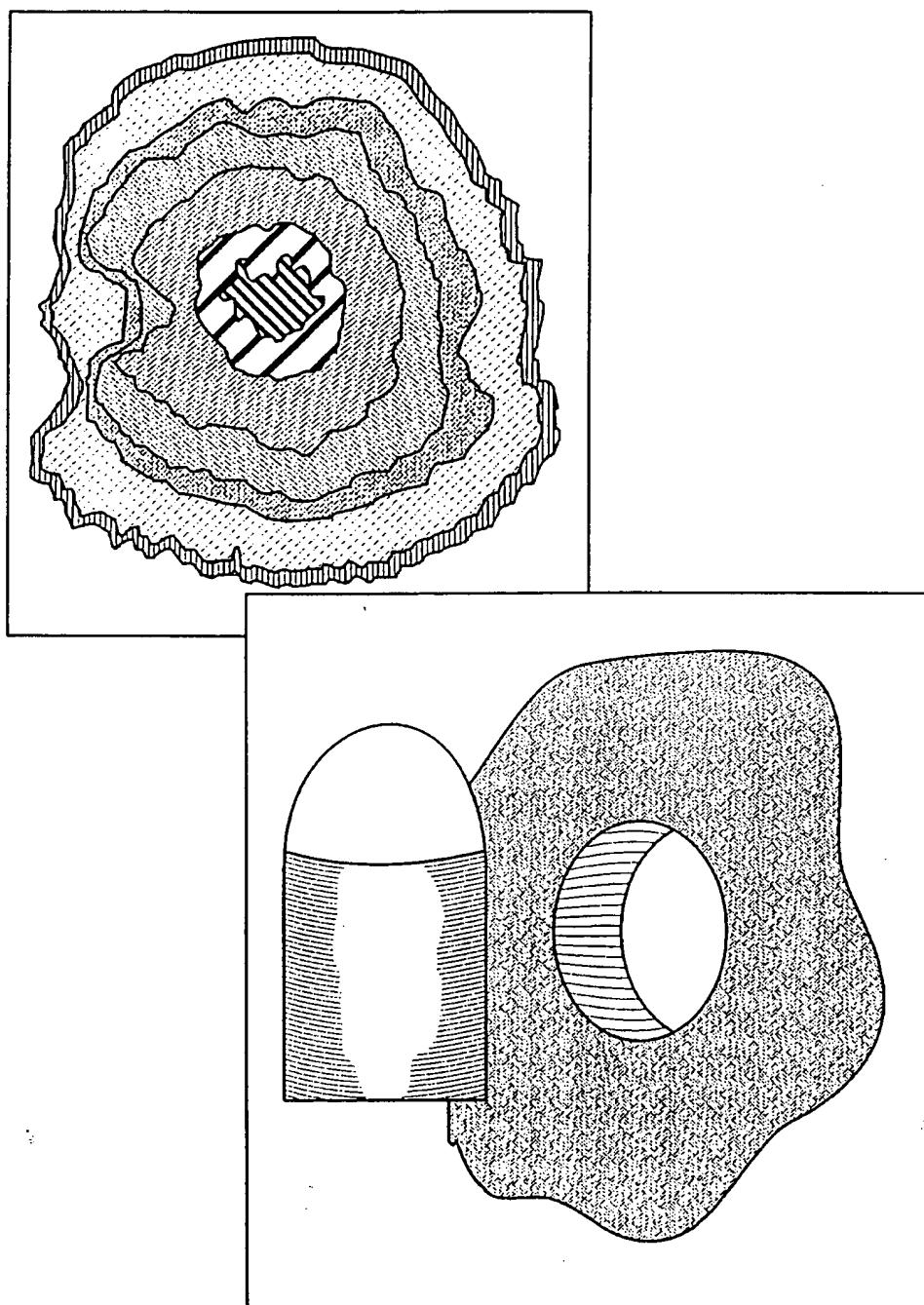


FIG. 5

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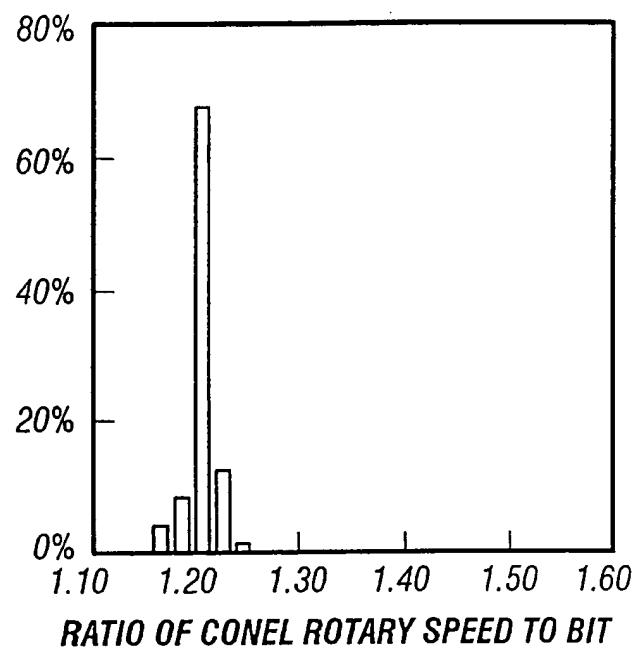


FIG. 6A

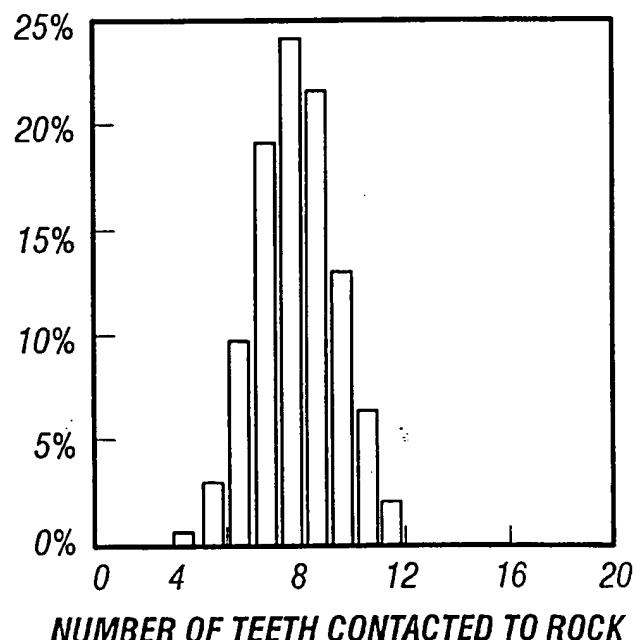


FIG. 6B

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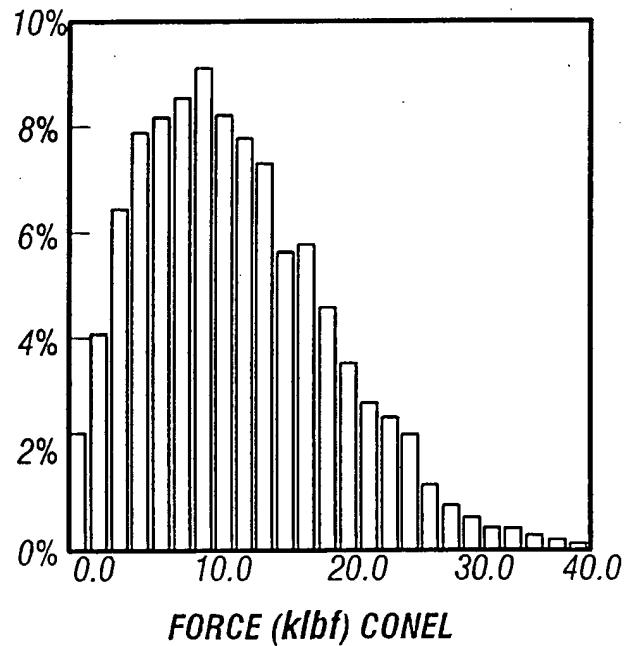
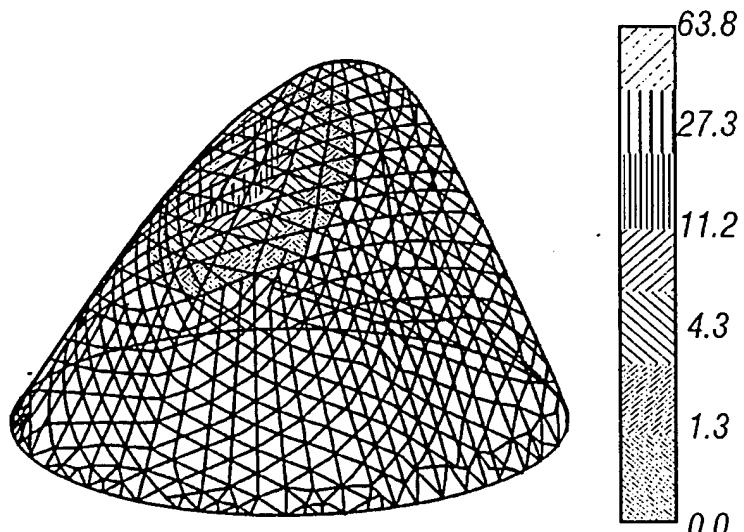


FIG. 6C



INSERT CUMULATIVE CUTTING

FIG. 6D

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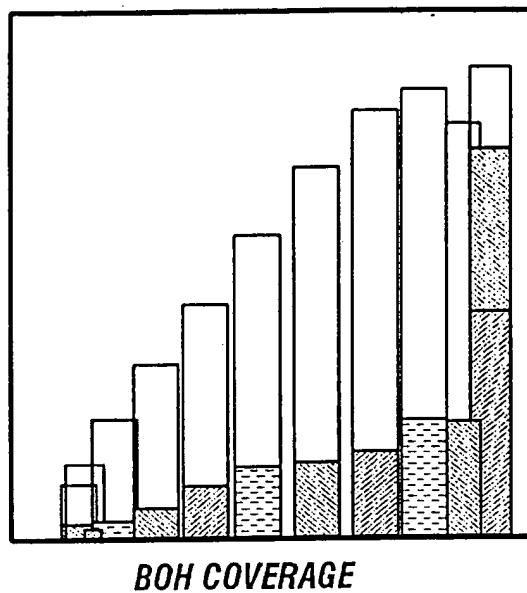


FIG. 6E

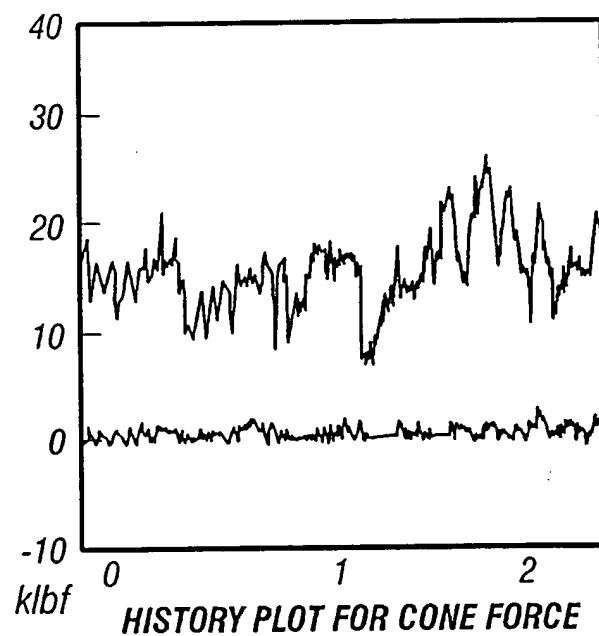
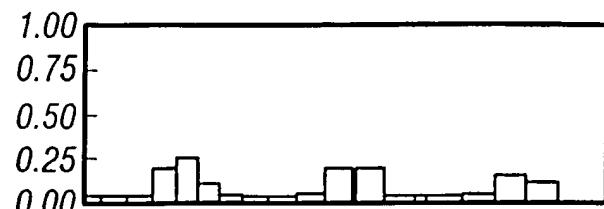
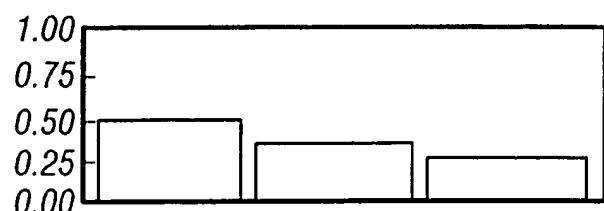


FIG. 6F

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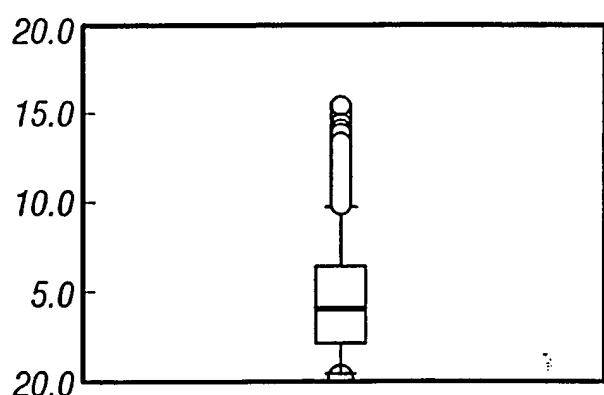
FORCE ON EACH ROW: f_z/w



FORCE ON EACH CONE: f_z/w

FORCE DISTRIBUTION

FIG. 6G



**FORCE (klbf) 1C-3R
BOX & WISKERS PLOT FOR ROW FORCE**

FIG. 6H

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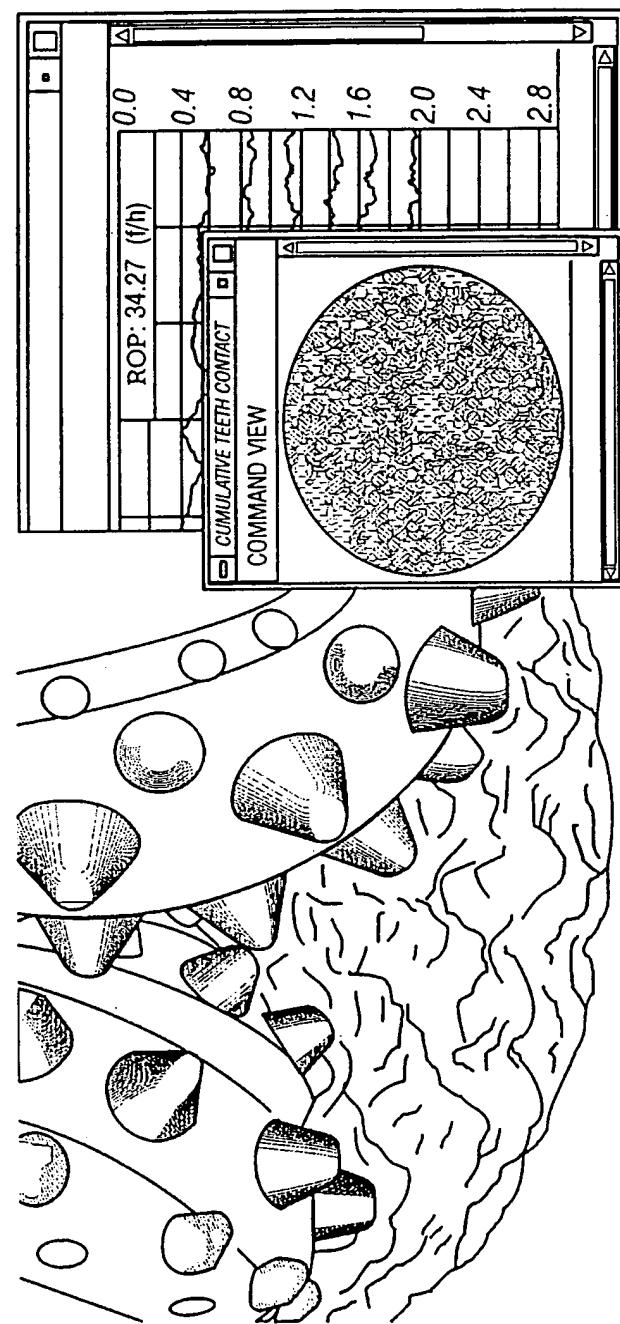


FIG. 7

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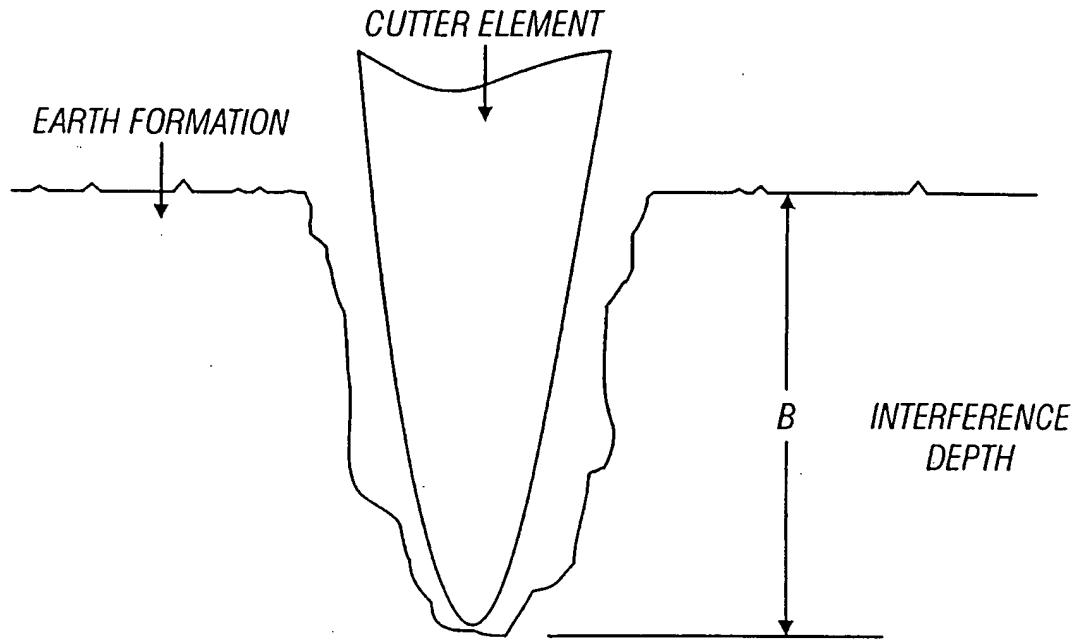


FIG. 8A

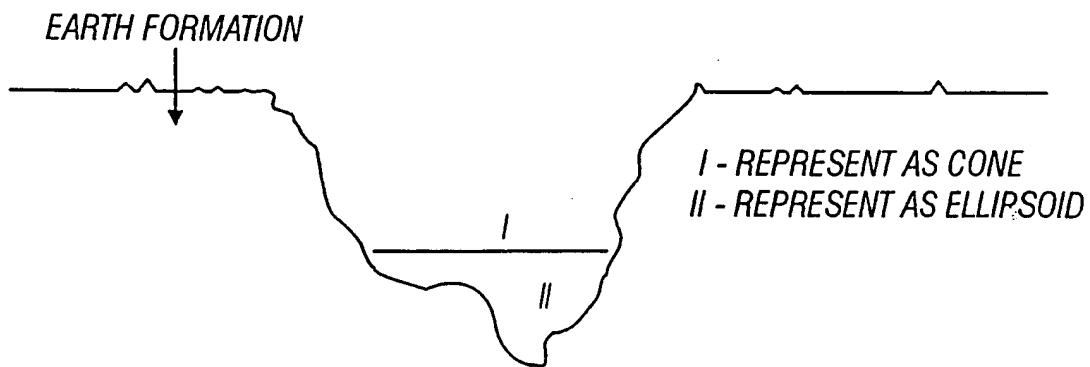


FIG. 8B

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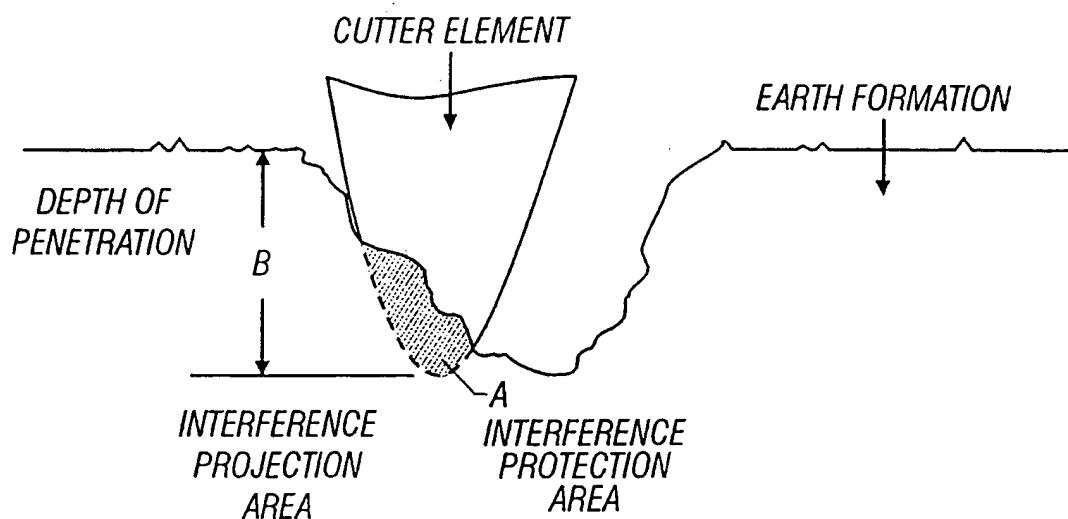


FIG. 8C

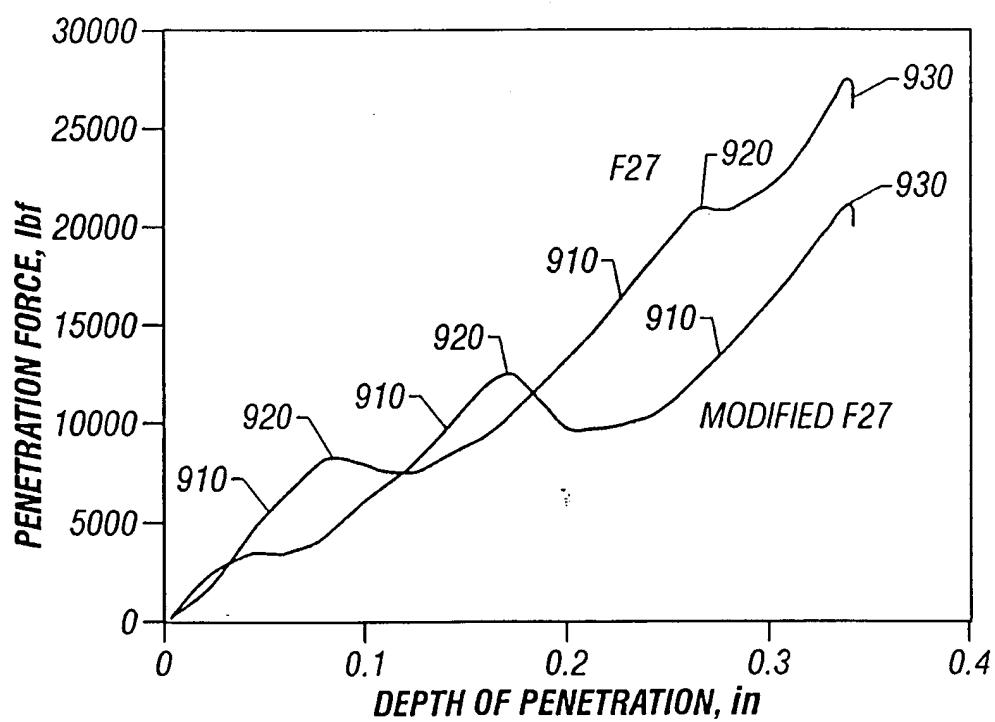
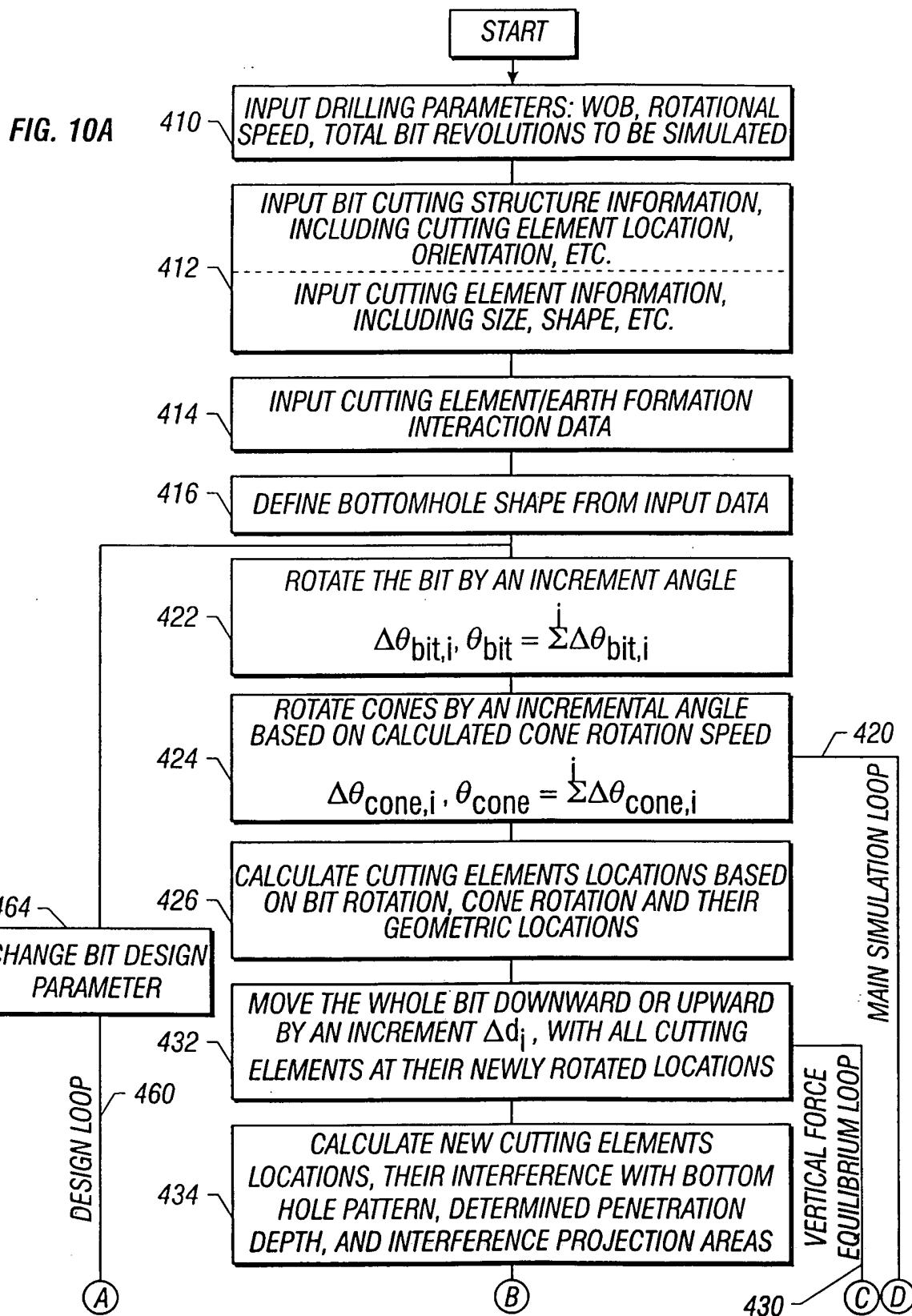


FIG. 9



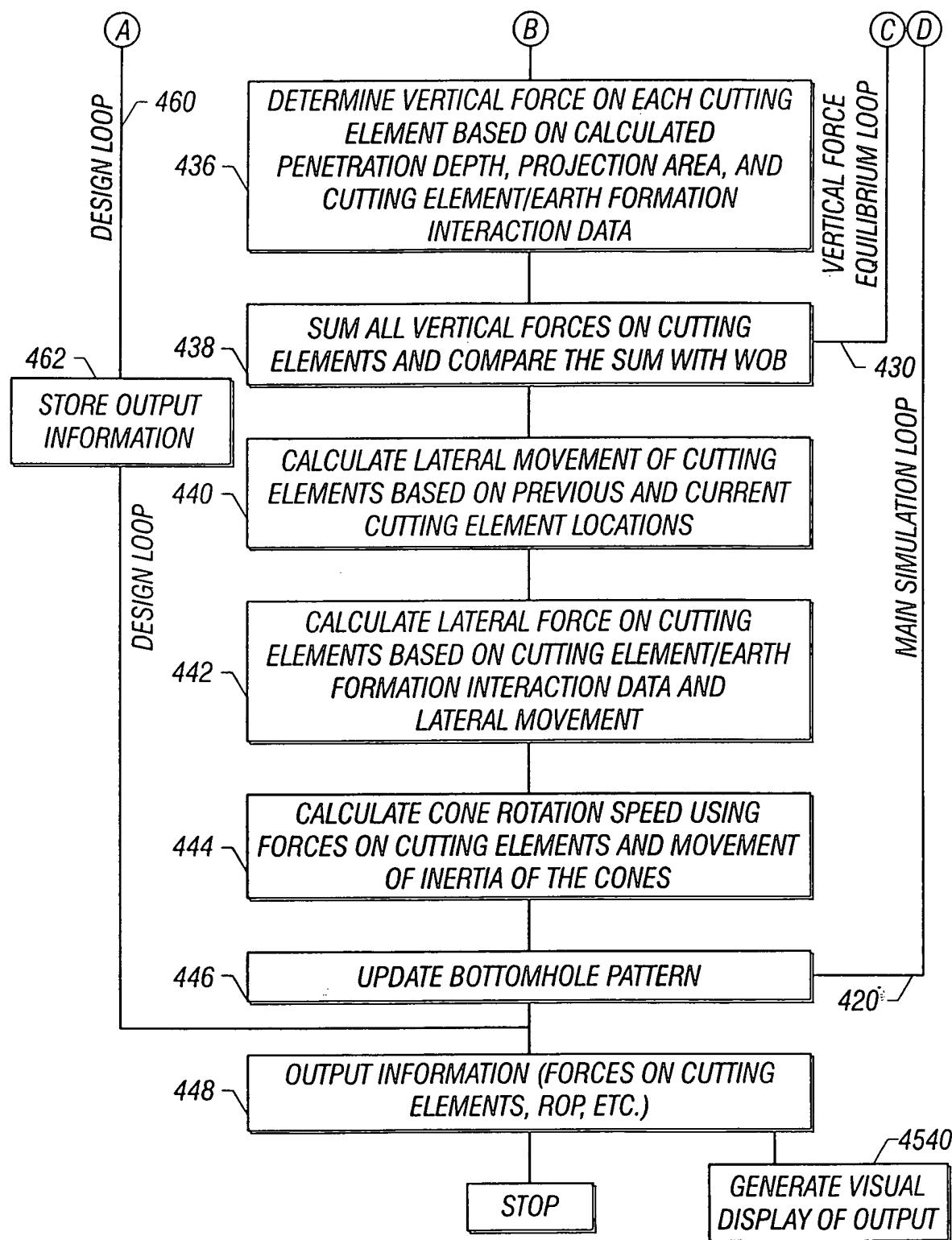
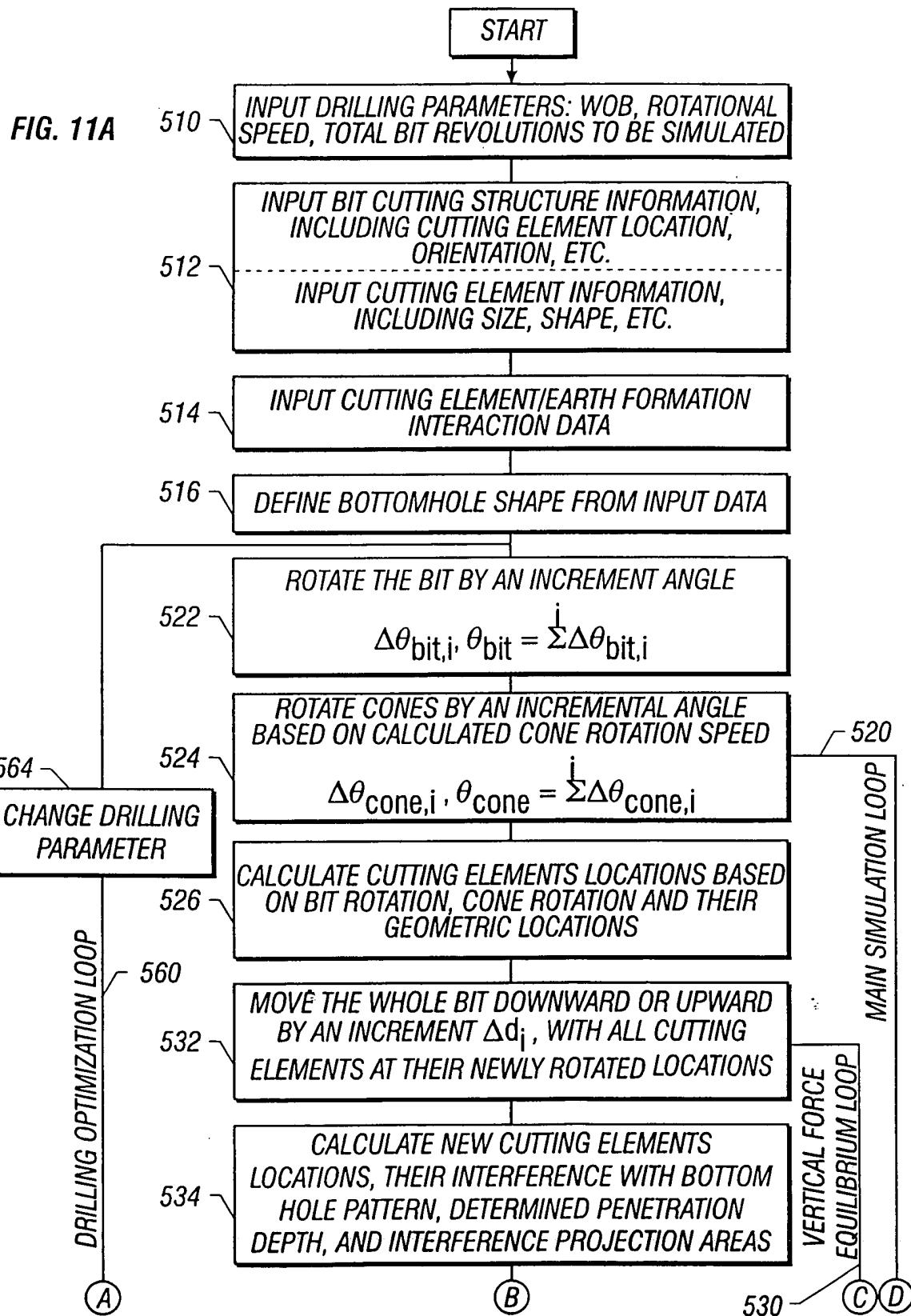


FIG. 10B



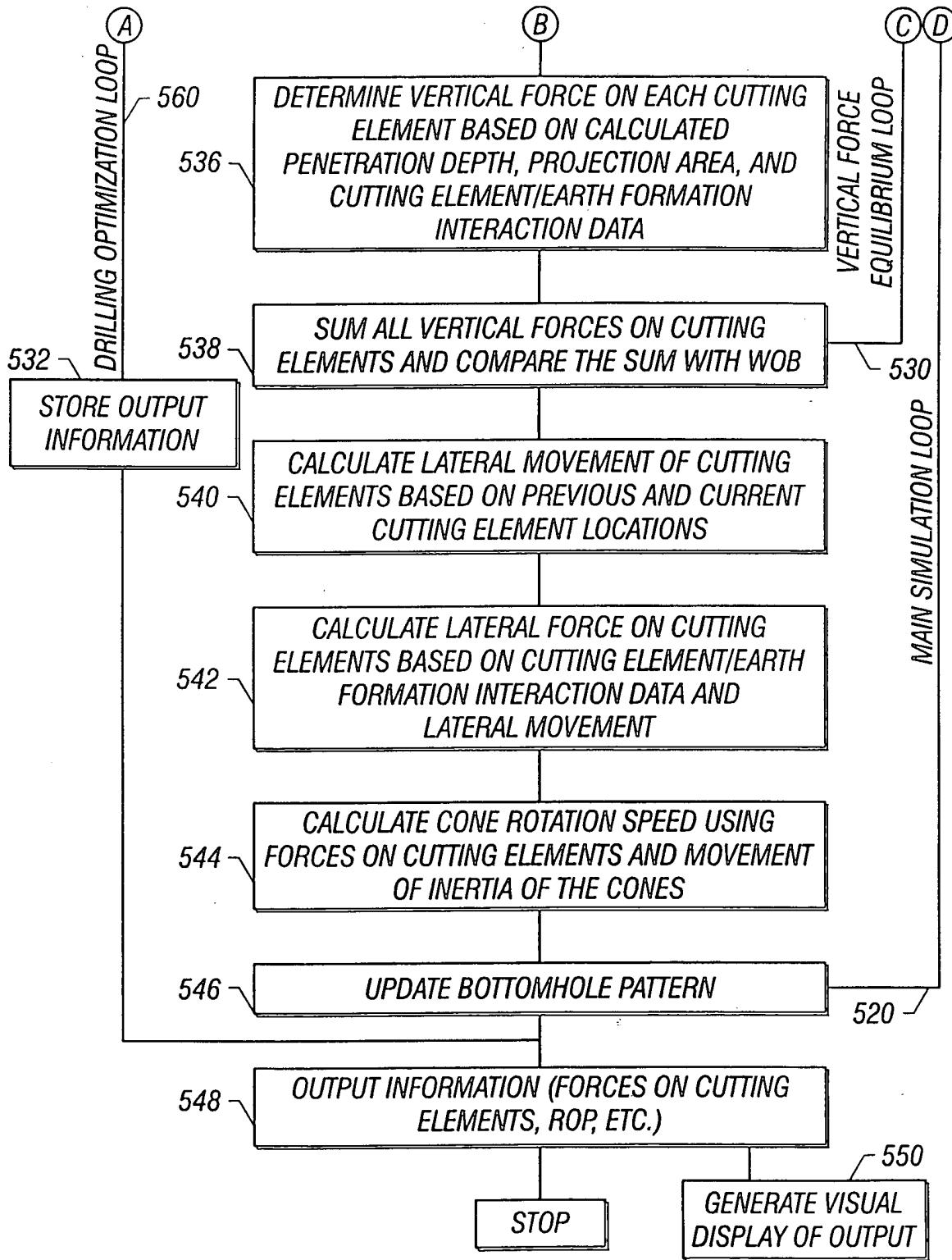


FIG. 11B